

UNITED STATES DISTRICT COURT
DISTRICT OF MASSACHUSETTS

DANA-FARBER CANCER INSTITUTE,)
)
Plaintiff,)
)
) No. 1:10-cv-11613-DPW
vs.)
)
)
GATEKEEPER PHARMACEUTICALS,)
INC., ET AL,)
)
Defendant.)

BEFORE: THE HONORABLE DOUGLAS P. WOODLOCK

MOTION HEARING

John Joseph Moakley United States Courthouse
Courtroom No. 1
One Courthouse Way
Boston, MA 02210
Wednesday, January 11, 2012
2:30 p.m.

Brenda K. Hancock, RMR, CRR
Official Court Reporter
John Joseph Moakley United States Courthouse
One Courthouse Way
Boston, MA 02210
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1 (The following proceedings were held in open court
2 before the Honorable Douglas P. Woodlock, United States
3 District Judge, United States District Court, District of
4 Massachusetts, at the John J. Moakley United States Courthouse,
5 One Courthouse Way, Courtroom 1, Boston, Massachusetts, on
6 Wednesday, January 11, 2012):

7 THE CLERK: All rise.

8 (The Honorable Court entered the courtroom at 2:30 p.m.)

9 THE CLERK: This Honorable Court is now in session.
10 You may be seated.

11 This is Civil Action 10-11613, Dana-Farber Cancer
12 Institute versus Gatekeeper Pharmaceuticals.

13 Will counsel please identify themselves for the
14 record.

15 MR. BRASHARES: William Brashares for Dana-Farber
16 Cancer Institute.

17 MR. SCOTT: Good afternoon, your Honor. Timothy
18 Scott. With me also in the courtroom is John Chant, CEO of
19 Gatekeeper, and Ted Folkman.

20 MS. PIROZZOLO: Lisa Pirozzolo from Wilmer Hale for
21 Novartis, and with me is Heather Price. Dr. Barish Ozdamar has
22 passed the bar in New York but is not admitted yet. Does your
23 Honor mind if he sits at counsel table?

24 THE COURT: No. You vouch for him. We know where to
25 find you.

1 MS. PIROZZOLO: Thank you, your Honor.

2 THE COURT: Is he going to have a speaking part?

3 MS. PIROZZOLO: No.

4 THE COURT: Well, I kind have had the feeling that
5 there were ships passing in the night as I went through the
6 briefing in this case, and I struggled to try to figure out how
7 to focus the issues here.

8 I think, at least at the outset, it turns on the
9 question of what "in part" means in this context, and the
10 parties do not seem to have a theory of that, at least one that
11 is grounded for me. The Gatekeeper approach seems to be
12 intensely fact-based, which is helpful, but there has to be a
13 theme to that pudding, and the Novartis approach is -- perhaps
14 it is too much to call it ethereal, but it does not really grab
15 the issues carefully, from my perspective.

16 So, I guess I would like to start by just
17 understanding what the parties think "in part" means as a
18 definition or almost a matter of construction in this setting.

19 So, maybe, Ms. Pirozzolo, I will start with you.

20 MS. PIROZZOLO: Yes, your Honor. Well, of course "in
21 part" is in the definition of "program technology," and we
22 believe it means what it says, that the definition of "program
23 technology" covers technology invented, discovered or developed
24 in whole or in part by the Institute Program participant, which
25 is --

1 THE COURT: And are conceived or reduced to practice
2 as part of a Funded Research Project.

3 MS. PIROZZOLO: That's correct.

4 THE COURT: Both features have to be present. But
5 what does that mean? I can use a homely analogy, just to
6 perhaps structure it a bit, by saying the man who gives you the
7 map to Treasure Island is probably within "in part;" the guy
8 who tells you that Treasure Island is in Michigan probably is
9 not, or at least I would think so, unless everything that
10 touches it is "in part".

11 So, how do I draw the line? It means what it says.
12 All right. This is like saying, "The document speaks for
13 itself," and I look down at the document and say, "All right,
14 talk to me, document."

15 (Laughter)

16 MS. PIROZZOLO: Well, I can tell you how we interpret
17 the phrase in a way that is relevant to this case. Dr. Eck is
18 a coinventor of the patent application at issue, so he is
19 clearly an Institute Program participant. So, the invention
20 here was clearly invented, at least in part, by Dr. Eck,
21 because is a coinventor of the patent.

22 THE COURT: But so what? Is he tainted. Is there a
23 bill of attainder that attaches to him for whatever he does?
24 Then I guess we focus on the question of what it means to
25 conceive and reduce to practice as part of the funded research

1 project.

2 MS. PIROZZOLO: And I think that's exactly right. So,
3 our position is that Dr. Eck and Dr. Gray were both program
4 participants. So, clearly the invention was invented,
5 discovered or developed at least in part by people obtaining
6 funding from Novartis, and our position is -- and I am happy to
7 walk through it; we have prepared slides which I hope aren't
8 ethereal and I hope are focused -- that the invention was
9 certainly conceived as part of a funded research project, and
10 I'm happy to walk through --

11 THE COURT: I am going to go to that in a minute, but
12 I want to just seize the first part of that, and that is that
13 if an Institute Program participant participates in the
14 invention or the discovery or the development, then the "in
15 part" is met; is that it?

16 MS. PIROZZOLO: Yes. Well, the "in part", yes, that
17 part of the phrase, and then you have the second part of the
18 definition that has to be conceived.

19 THE COURT: And I will get to that. So, back to my
20 attainer analogy, that it is an attainer. Once you have got
21 a program, Institute Program participant, anything that you are
22 involved in that touches on invention and discovery and
23 development is included in "in part"?

24 MS. PIROZZOLO: If it means the latter part of the
25 definition as well.

1 THE COURT: But we will do it in two parts.

2 MS. PIROZZOLO: Yes, your Honor.

3 THE COURT: So, let me take it a bit further. The
4 individual who is an Institute Program participant is drawn
5 into this no matter how minimal his role in the invention or
6 the discovery or development is, right?

7 MS. PIROZZOLO: Well, he is drawn into the first part
8 of the definition only, yes.

9 THE COURT: All right. In for a dime, in for a
10 million dollars.

11 MS. PIROZZOLO: It means you are going to look at the
12 second part to see if that person played a role in conception
13 or reduction to practice.

14 THE COURT: Now, let me just stop and see whether
15 Gatekeeper has any refinement to that.

16 MR. SCOTT: I think that there are two prerequisites
17 to this being program technology. The first is a program
18 participant participate in the invention. So, in that sense I
19 agree "in part" --

20 THE COURT: All right. I just want to be sure.

21 MR. SCOTT: Sit down?

22 THE COURT: Nothing personal, but I just want to move
23 on to something that may be disputed.

24 So, now we come to the conceiving or reducing to
25 practice as part of the funded research project, and here don't

1 I have to look at when it is that it is reduced to practice, I
2 mean the temporal occasion upon which it is reduced to
3 practice?

4 MS. PIROZZOLO: Well, your Honor, the definition says
5 conceived or reduced to practice. So, I think you look at --

6 THE COURT: I am interrupting you, and you will have
7 different views of their material, but conception and reduction
8 to practice are almost the same thing in respect of this
9 particular technology, aren't they?

10 MS. PIROZZOLO: I don't agree, your Honor, and I'm
11 happy to -- we cited, I believe, in our brief conception is the
12 formation in the mind of the inventor of a definite and
13 permanent idea of the complete and operative invention, and the
14 Burroughs Wellcome case, which actually Gatekeeper cited,
15 specifically says that an inventor need not know that his
16 invention will work for conception to be complete.

17 THE COURT: But conception does not occur unless one
18 has a mental picture of the structure of the chemical or is
19 able to define it by its method of preparation, its physical or
20 chemical properties or whatever characteristics sufficiently
21 distinguish it, which is to say, in this context pretty close
22 to reducing it to practice. Yes, there is an idea. Between
23 the idea and the reduction passes a shadow, but it is a
24 relatively narrow shadow, I think.

25 MS. PIROZZOLO: Well, here, just the patent

1 application, if you look at Claim 1 of the application, it is
2 what's called the genus claim, so it includes millions of
3 compounds. It's got a form chemical structure and that is what
4 Dr. Eck conceived, that basic structure of a compound when he
5 did his crystallography studies. He said, We want to make
6 irreversible inhibitors that bind to a particular cysteine on
7 certain kinases, and that's what that class represents.

8 THE COURT: All right. But the question is, when do
9 we have conception and reduction to practice? That is, I
10 guess, what I am getting at. Is there a broad time period?

11 MS. PIROZZOLO: Well, clearly --

12 THE COURT: You say 2007, I guess.

13 MS. PIROZZOLO: Well, Dr. Eck did his -- and I'm happy
14 to walk through the chronology, reciting to the record -- but
15 Dr. Eck did his studies on QAD-409 and Jak3 and another
16 inhibitor, an EGFR, and he superimposed those crystal
17 structures, and that's where he got his idea of making this
18 class of compounds.

19 THE COURT: Isn't the real point for conception and
20 reduction to practice -- because I still do not distinguish
21 between them materially here -- isn't the real point when
22 someone discovers the connection between the synthesis of
23 WZ-4002 and its effect on the T790M mutation? Isn't that the
24 point?

25 MS. PIROZZOLO: Your Honor, this is a really

1 fundamental point that I want to be clear on. No, we do not
2 think that's the issue in the case, because the claims -- there
3 is a fundamental disconnect, if anywhere, on the scope of the
4 patent application that's at issue. This patent application
5 does not contain one claim to that particular compound. That
6 is the lens through which -- if there are ships passing in the
7 night, that's why, because they say the IP is that compound and
8 the knowledge that that compound inhibited the Gatekeeper
9 mutation selectively.

10 THE COURT: So, let us go to some sort of "but-for"
11 analysis. If I were dealing with this and saying this is not
12 an agreement, this is an infringement, let us say that you have
13 some intellectual property that you can claim. I think I
14 probably would say about the only claim you have of
15 infringement is 51. That is about the only one that gets into
16 this kind of use of WZ4-002 and T790M, right?

17 MS. PIROZZOLO: I don't think so, your Honor. The
18 Claim No. 1 is a broad genus claim that includes --

19 THE COURT: So, you say if it is a genus claim we get
20 everything that we can, even if it is not identified with some
21 specificity with respect to this kind of conception and
22 reduction to practice?

23 MS. PIROZZOLO: Well, what you have in the patent,
24 just to be clear, is, you have the genus claim. That's Claim
25 1. That's very broad, millions of compounds, clearly not

1 limited to WZ-4002.

2 THE COURT: But why shouldn't I limit it to that?
3 That is what you brought to the table, or that is what you had
4 in the mix. Otherwise, and I will put this in a different way,
5 for public policy purposes you would be substantially reducing
6 the -- maybe proliferating a number of patent claims, one that
7 does precisely what you ask for and then one that asks for
8 everything else that is in the genus.

9 MS. PIROZZOLO: Just to be clear, your Honor, the
10 context in which this arises is Novartis didn't file the patent
11 application.

12 THE COURT: No, I understand that. So, what I am
13 asking is I guess a more specific question about distorting the
14 application process for these kinds of claims. Now, one way of
15 looking at it is this is kind of a "gotcha." They make, on
16 your theory, a genus claim and you say, Well, on this one too,
17 in for a dime, in for a million dollars.

18 MS. PIROZZOLO: I don't think it's a "gotcha," your
19 Honor, because if the funded research led to a broad class of
20 inhibitors that was then claimed by the applicants in a patent
21 application that was filed, under the contract we had an option
22 right to that patent application. If they wanted to claim it
23 narrowly, then I guess that would be a different case, but
24 that's not what we are here about. The patent application that
25 was filed is a very broad class of compounds.

1 And I want to say, just to be clear, we don't agree
2 that Novartis funding had no role in the compound WZ-4002,
3 because we believe that the record shows that the
4 crystallography structures that Dr. Toms was doing in Dr. Eck's
5 lab that were being exchanged with Dr. Gray's lab that Dr. Zhou
6 was using to make the different compounds in Spring of 2007,
7 that was Novartis-funded research. So, we disagree with the
8 concept that --

9 THE COURT: But the issue goes back for me, on this
10 aspect of it, to conception and reduction to practice. So,
11 maybe they were working in this area, but we have to get to the
12 point of reduction to practice.

13 Let me just move off this, because you had mentioned
14 why we are here, and I want to be sure I understand why we are
15 here.

16 Let me assume for a moment, just to test this, that
17 you are correct and you have disclaimed on this. What happens
18 then? Basically they take it but you do not have any damages,
19 or are you suggesting that your right to this patent means that
20 you can prevent them from being involved in practicing this
21 invention?

22 MS. PIROZZOLO: I think there is a fundamental
23 confusion here. The only claim that Novartis is facing in this
24 case is as a defendant. We are being accused of tortiously
25 interfering --

1 THE COURT: No, I understand that.

2 MS. PIROZZOLO: -- with Gatekeeper. So, we have
3 washed our hands of this. If you rule that we were entitled to
4 it, then summary judgment enters for us on the claim. We are
5 not going to obviously assert the claims, because we have
6 waived the right to license it. So, it's now Gatekeeper's
7 claim.

8 THE COURT: Then it passes, under your theory, to the
9 next level of priority?

10 MS. PIROZZOLO: Yes. As I understand it, Dana-Farber
11 has given Gatekeeper rights to the patent application and
12 Novartis is no longer involved with it.

13 THE COURT: Now, let me go back to this set of issues,
14 and I am trying to think of this in terms of maybe "but for" as
15 a way of dealing with it. It takes a village to raise a child,
16 but "conception" tends to be a narrower transaction. So, I am
17 focusing on that point of conception, or what I concede to be
18 that point of conception, and I want to understand from you
19 where you say that is, when you say that is.

20 MS. PIROZZOLO: I say it was when Dr. Eck and Dr. Gray
21 met and decided to make this class of compounds based on the
22 QAD-409 scaffold, and that occurred -- no one had an exact
23 date -- but sometime in late 2006.

24 THE COURT: And so, merely holding hands is
25 conception, to keep the metaphor?

1 MS. PIROZZOLO: Well, what Dr. Eck said is that
2 basically once he -- and I should say this kind of moved along.
3 So, they had the first conversation and then they kept talking
4 and collaborating during 2007. So, maybe conception of the
5 broad genus occurred at an earlier time than conception of some
6 of the other more specific claims, but that is when Dr. Eck
7 said those crystal structures that he had developed could be
8 used to design inhibitors that had particular features,
9 irreversible inhibitors with particular features that would
10 bond with the cysteine in the vicinity of the ATP binding
11 pocket.

12 I would note that Gatekeeper essentially describes the
13 invention as those structures that would bind -- I think it's
14 at page 7 of their brief; I'm looking for the reference -- but
15 that bind to the cysteine in the vicinity of the ATP binding
16 pocket. So, once you had the idea to do that --

17 THE COURT: Well, but isn't it more than simply
18 binding? It is also some concept of displacing, for purposes
19 of binding, a different way of binding there, and have they
20 conceived that in 2007?

21 MS. PIROZZOLO: Yes, your Honor. Because if you look
22 at Dr. Eck's May 2007 presentation to Novartis describing his
23 research -- and I'm happy to put it up. I brought a
24 presentation slide.

25 THE COURT: Go ahead.

1 MS. PIROZZOLO: It's slide 26. Okay. So, Dr. Eck was
2 doing a presentation to Novartis in May --

3 THE COURT: Is this us or you that is causing the --

4 MS. PRICE: I think it's on the monitor.

5 THE COURT: I am seeing movement on the monitor. If
6 it is us, we will get somebody from IT to fix it.

7 MS. PIROZZOLO: I think it's you, because it's not
8 moving on our computer. I don't know if you have the exhibits,
9 your Honor.

10 THE COURT: I do.

11 MS. PIROZZOLO: It's Exhibit 90. And you can see on
12 the cover page it's a presentation. Actually, your Honor, I
13 have a hard copy of our presentation, so maybe I can use that.

14 So, your Honor, it's page 26 in the presentation I
15 just handed up, but it is also Exhibit 90 in the book.

16 THE COURT: I have got it now.

17 MS. PIROZZOLO: And these are conclusions that Dr. Eck
18 stated, and just for context, this is a presentation Dr. Eck
19 gave to Novartis, and he talks about the increased affinity
20 of -- he talks about two mutants of EGFR, L858R and T790M for
21 ATP is a major factor in inhibitor resistance. So, he
22 discovered that.

23 And then he has a second conclusion which I think
24 directly goes to your point, that, "Irreversible inhibitors, as
25 a class, overcome resistance through covalent binding."

1 So, he has stated the rationale for the design of this
2 particular class of inhibitors. And if you look earlier in the
3 presentation, and this is at page 19 of the presentation, he
4 specifically has the structure of, he has his --

5 THE COURT: Page 19?

6 MS. PIROZZOLO: Page 19, your Honor. You can see a
7 picture in the presentation where Dr. Eck puts his
8 co-crystallization studies there, and that's the figure on the
9 left-hand side of the page, and that is a picture of EGFR and
10 13-JAB, that's an inhibitor, superimposed on a
11 co-crystallization of Jak3 and the Novartis inhibitor QAD-409.
12 And he is pointing out on the right-hand side of the page what
13 this teaches me is the active site of binding is this
14 particular cysteine that's in both of these kinases. And then
15 he has the figure of QAD-409, the chemical structure there.

16 And what he testified, he suggested to Dr. Gray was,
17 Why don't we use this scaffold, they call it, as a basis for
18 designing chemical compounds so that we can create irreversible
19 inhibitors for these kinases?

20 So, I put on the slide his deposition testimony: "So,
21 we had determined that both Jak3 QAD-409 complex structure, and
22 also, the...EGFR in complex...", so that they both have the
23 Cysteine in this equivalent position.

24 And then when I asked Dr. Eck at his deposition what
25 he was trying to portray in this slide, he said, "So...using

1 structural modeling, this structural superposition basically
2 showed us sort of where one would want to attach the
3 irreversible warhead on this alternate scaffold QAD409 or
4 something like it, in order to efficiently react with the
5 target Cysteine to make an irreversible inhibitor."

6 So, he is doing much more than having an abstract idea
7 of compounds. He is figuring out why he wants to make the
8 compounds he wants to make, he's actually suggesting a
9 particular scaffold to use, QAD-409, and that is precisely what
10 he told Dr. Gray about and gave to Dr. Gray, and Dr. Gray's lab
11 then went ahead and made compounds based on the scaffold, and
12 those very same compounds are claimed in the patent
13 application.

14 So, we don't think it's just an abstract -- I forget
15 the phrase Gatekeeper used -- an "inspiration." It's much more
16 than an inspiration. This is a very specific guideline.

17 And, in fact, another way to think about it is,
18 Dr. Eck is a coinventor on this patent. Gatekeeper's story of
19 the invention doesn't really acknowledge any role he played.
20 His role, as he explained it, was coming up with the idea based
21 on co-crystallization studies that his lab was uniquely expert
22 in to make these types of compounds.

23 And so, to get to EGFR, if you look at page 20 of our
24 presentation, Dr. Eck also clearly explained why his work on
25 Jak3 was relevant to work on EGFR. Those two compounds, as you

1 can see from his superimposed structure, have common
2 characteristics. Both have, and he testified to this and the
3 quote is on page 20, a Methionine gatekeeper, as does the
4 gatekeeper mutation of the EGFR. So, he says, "...irreversible
5 inhibitors of Jak3, may also be good irreversible inhibitors of
6 the T790 mutant of EGFR by virtue of the fact that both have
7 the same cysteine and also a methionine gatekeeper residue."

8 So, he was doing studies on EGFR, the Gatekeeper
9 mutant, he was also doing co-crystallization studies with
10 QAD-409. He is the one, and this is on page 21 of our
11 presentation, who shared that modeling with Dr. Gray. He
12 testified, "...the modeling that we did and that we shared with
13 Nathanael was based on looking at the co-crystal structure of
14 QAD409 with Jak3, superimposed on an EGFR structure in complex
15 with an irreversible inhibitor, the 13-jab compound..." And
16 then he says, "that basically...became an exercise in, you
17 know, add this chemical group to...this scaffold in roughly
18 this position."

19 So, he was the one that was the mastermind of creating
20 this class of compounds.

21 And so, he explains how he met with Dr. Gray in his
22 office and explained this strategy to him, "...explained the
23 strategy which was obviously immediately obvious to him, and
24 expressed my interest in collaborating with him in developing
25 these irreversible inhibitors based on these and potentially

1 other scaffolds using this sort of strategy...informed by our,
2 at that time, unpublished structures of Jak3 with QAD-409 and
3 with EGFR with irreversible Parke-Davis inhibitor."

4 So, to get to your Honor's question about a "but-for"
5 analysis, the compounds that Dr. Gray's lab made in 2006 and
6 2007 originated with Dr. Eck and his Novartis-funded research
7 on co-crystallization studies.

8 And if you look at the next slide in our presentation,
9 that's slide 22, Dr. Zhou, who is the person that made all
10 these WZ compounds, his name is Wenjun Zhou, testified, "I saw
11 this crystal structure with QAD-409 as our basis for designing
12 the new compounds." So, he was given the co-crystallization
13 structures that Dr. Eck had told Dr. Gray about, and he used
14 that idea and those structures to make the WZ compounds.

15 And if you turn to the next slide, your Honor, slide
16 23, you can see an example of one of the compounds Dr. Zhou
17 made. So, I have put the NVP-QAD-409 on the left-hand side of
18 the slide and then the WZ-1-84 compound on the right, and you
19 can see how similar the structures of those compounds are,
20 because Dr. Zhou used those compounds to inform -- used the
21 idea Dr. Eck had given about starting with QAD-409 to make
22 compounds.

23 And I would just like to, if I could, address
24 something that Gatekeeper raises in its brief, which is, well,
25 WZ-1-84 has no bearing on this case, there are different kinds

1 of compounds that are at issue here. Compounds that look just
2 like WZ-1-84 are right in the patent application. If you look,
3 for example, at Table 1 of the patent application -- and I
4 don't know if you're able to toggle between slides, but we have
5 Table 1 at page 7 -- the compound that is in the patent
6 application as compound number 1-3 is virtually -- it's very
7 similar to WZ-1-84. The only difference is, if you look at the
8 compound 1-3 there is a chlorine addition in the top right-hand
9 side, a little line going off. That's the only difference
10 between the WZ-1-84 and the compound claimed in the patent
11 application.

12 So, it's very clear that Dr. Eck conceived of the
13 general idea of making this class of compounds and was the one
14 who communicated that idea to Dr. Gray, who in turn
15 communicated it to Dr. Zhou, who made the compounds, and then
16 they tested these compounds.

17 And I don't know if your Honor would like me to go on
18 to reduction to practice, but it's clear that --

19 THE COURT: Yes, I do.

20 MS. PIROZZOLO: -- that these compounds were --

21 THE COURT: I do want you to reduce it to practice.

22 MS. PIROZZOLO: Okay. So, Gatekeeper's position is
23 that the compounds were not reduced to practice until Fall of
24 2008, when Dr. Janne did certain tests. But there is evidence,
25 your Honor, undisputed evidence, that compounds that were in

1 this class that Dr. Zhou made, as suggested by Dr. Eck, had
2 already been shown to be inhibitors of kinases.

3 So, if you look at Dr. Gray's -- and we try to explain
4 this with reference to Dr. Gray's own grant application to the
5 National Science Foundation in July of 2007. It's at page 27
6 of our presentation. So, this is in July of 2007, so long
7 before Fall of 2008, obviously, Dr. Gray submits this
8 application, and the key pages of that are DFC 4917 to 73.
9 Basically there Dr. Gray explains how he used the crystal
10 structures of Jak3 and QAD-409 as the basis for developing
11 irreversible inhibitors, and he not only explains the rationale
12 for making that class of inhibitors but also provides data
13 showing some of the inhibitors were effective. Does he provide
14 data for WZ-4002? No, but he provides data for inhibitors in
15 the class.

16 THE COURT: I have let you go on for a bit without
17 asking some questions, but I compare that to his, Dr. Gray's,
18 annual report in connection with this Novartis funding, and if
19 we are thinking of this as being the point at which it was
20 reduced to practice in his 2007 annual report, he says, A
21 couple of scaffolds also inhibit the Gatekeeper mutant of
22 basically T790M, showing that the approach is general, but he
23 says, This will serve as a good starting point. He does not
24 talk about it as a reduction to practice in addressing
25 Novartis. So, maybe it is possible to distinguish between

1 conception and reduction to practice, but reduction to practice
2 does not appear, at least from Dr. Gray's perspective, to be in
3 2007.

4 MS. PIROZZOLO: Well, what Dr. Gray says that refers
5 to is a completely different project from the project that's
6 described in the National Science Foundation application. He
7 says that was not related.

8 THE COURT: Well, I guess he does. On the other hand,
9 I am not sure what significance I attach to the *post hoc*
10 characterization of something that he said earlier, and he said
11 that he was not focused primarily on using the rational design
12 to prepare selective inhibitors. So, we are at a point at
13 which we are before reduction to practice, at least by the
14 language that he is using, and the language that he is using
15 captures the reduction to practice of this invention, even as
16 broadly conceived as you have it.

17 MS. PIROZZOLO: Well, has your Honor looked at the --
18 I'm referring to the National Science Foundation publication.

19 THE COURT: I know you are, and I am now
20 cross-checking against what Dr. Gray is telling Novartis.

21 MS. PIROZZOLO: Well, his explanation is that's a
22 different project.

23 THE COURT: Well, that is the explanation, or
24 assertion is probably closer to it, and the question is how can
25 I reasonably believe that under these circumstances? He says,

1 okay, that was something else. If it is something else, I
2 cannot see it.

3 MS. PIROZZOLO: Well, it's very confusing, to be
4 honest, because in the National Science Foundation grant he,
5 for example, has a picture of QAD-409, which is the Novartis
6 inhibitor, that he calls P1 for reasons he couldn't explain at
7 his deposition.

8 THE COURT: All of that is true, but what I guess we
9 are getting at, without getting too much into the history and
10 also bias under these circumstances, but it is that there was
11 uncertainty at this point, there was not reduction to practice
12 at this point. Even he concedes that.

13 MS. PIROZZOLO: Your Honor, but he and Dr. Eck both
14 made presentations and disclosed data that had the rationale
15 for making the class of inhibitors, had the actual chemical
16 structures of the inhibitors and showed data to show that those
17 chemical compounds inhibited a variety of kinases. So, under
18 any definition of "conception and reduction to practice" in the
19 Federal Circuit cases, those compounds were conceived and
20 reduced to practice by then. So, what we have shown in the
21 record is --

22 THE COURT: I do not want to put too much emphasis on
23 various ways before various audiences that Dr. Gray
24 characterizes this, but a good starting point is a reduction to
25 practice under Federal Circuit law?

1 MS. PIROZZOLO: Well, under Federal Circuit law, the
2 definition of "reduction to practice" is -- I'm flipping in my
3 presentation because we have set out those cases at page 13 --
4 is, constructs a product or performs a process that is within
5 the scope of the patent, demonstrates the capacity of the
6 invented idea to achieve its intended purpose. And in the
7 pharmaceutical arts it is sufficient, and we are actually using
8 the case Gatekeeper referred to in its brief, the Fujikawa
9 case, any pharmacological activity is sufficient. So, as long
10 as you have data showing inhibition of kinases, which is what
11 the patent is directed to, you have had a reduction to
12 practice.

13 Gatekeeper wants to say, Well, no, you need to show
14 specific inhibition of the Gatekeeper mutant of EGFR, and you
15 need to show it's selective. That's not the law, as far as the
16 reduction to practice of chemical composition claims; any
17 pharmacological activity is sufficient. And Dr. Gray and
18 Dr. Eck collaborated in making the compounds that fall within
19 the scope of the patent, and they also tested them and showed
20 they had inhibition activity.

21 THE COURT: Well, let me put it in a different way,
22 then. Is the synthesizing of 150 new-type inhibitors covering
23 approximately 10 distinct scaffold classes sufficient to reduce
24 to practice under this language? I have to say I have not
25 looked carefully at Fujikawa, but it seems a little

1 latitudinarian in its approach. Any pharmacological activity
2 is a reduction to practice?

3 MS. PIROZZOLO: Well, it's reduction to practice of
4 the compound claim, if you want to claim the compound, because
5 otherwise it would be confusing as to when the compound claim
6 was reduced to practice. If it wasn't any pharmacological
7 activity would you have endless debates about, well, they
8 showed activity here but it really isn't important and they
9 showed activity there but it really wasn't important?

10 THE COURT: Well, I do not know why you would not.
11 That just makes synthesis, any kind of synthesis, reduction to
12 practice, any pharmacological activity.

13 MS. PIROZZOLO: The reason it's important here is
14 right in the patent claims.

15 THE COURT: Is? I am sorry.

16 MS. PIROZZOLO: You can see the importance in the
17 patent claims. The patent claims, Claim 1 is this broad genus,
18 Claim 51 is inhibition of any kinase, and then it goes on to
19 get a little more specific to kinases with a cysteine in a
20 certain position. So, if you show inhibition activity in any
21 kinase that falls within the scope of Claim 51, you can't say,
22 Well, no, you needed to show it in the Gatekeeper mutant of
23 EGFR. That would be contrary to what these patent claims are,
24 which is inhibition in any kinase --

25 THE COURT: Why wouldn't I, then, carve through it and

1 say, okay, you get so much as where I started earlier, as
2 exists in 51, you do not get more, you do not get less, as a
3 way of cabining this from creeping over every kind of
4 pharmacological activity that these program participants
5 engaged in?

6 MS. PIROZZOLO: Just to be clear, your Honor, we don't
7 want any of it. All we are trying to show is that we didn't
8 tortiously interfere by virtue of claiming, Hey, we're entitled
9 to license this patent under the CRA. That's the only issue
10 that's relevant to the claims against Novartis.

11 THE COURT: Well, it may or may not be in the sense
12 that if I limit it to -- I am just saying Claim 51 as a way of
13 carving it out a little bit more carefully, you would still be
14 faced with a question of tortious interference, wouldn't you?

15 MS. PIROZZOLO: Why is that, your Honor?

16 THE COURT: Well, I will ask them.

17 MS. PIROZZOLO: Well, because I feel like if the
18 claims are broad enough to cover the class of compounds --

19 THE COURT: Let us assume that I say -- I am trying to
20 understand this more fully, and so I say not Claim 1; that is
21 just too broad.

22 MS. PIROZZOLO: You're saying Claim 1 is invalid?

23 THE COURT: No, because we are not talking about
24 invalidity here; we are simply talking about what is it that
25 you get to piggyback on. You do not get to piggyback on Claim

1 1. You do get to piggyback on Claim 51.

2 MS. PIROZZOLO: Well, then, I think the implication is
3 we should have been asked about that and given the right to
4 exercise our license to Claim 53, and that never happened here,
5 and we certainly didn't tortiously interfere by saying, Hey,
6 you know, we think we may have rights because we funded a lot
7 of research on these subjects at Dana-Farber.

8 THE COURT: All right. Unless there is something more
9 that you want to say about this aspect --

10 MS. PIROZZOLO: "This aspect" meaning conception --

11 THE COURT: -- being conception and reduction to
12 practice.

13 MS. PIROZZOLO: I think I have covered it, your Honor.

14 THE COURT: So, let me just see if I have got a couple
15 of the -- I will not call them secondary -- but alternative
16 arguments clear under these circumstances.

17 I see the assertion that Gatekeeper says that Dr. Gray
18 sought and obtained the Steering Committee's consent with
19 respect to consulting as a consulting agreement. Is that in
20 dispute or not? I could not find the evidence of it. I just
21 saw the reference, but I did not see any evidence in writing.

22 MS. PIROZZOLO: I'm sorry. There is no evidence that
23 Dr. Gray sought or obtained consent.

24 THE COURT: Is it disputed?

25 MS. PIROZZOLO: I don't think as a matter of

1 admissible evidence it is disputed. I mean, Gatekeeper has
2 made allegations that --

3 THE COURT: No. Is it disputed by you that he did not
4 seek and obtain the consent for consultation?

5 MS. PIROZZOLO: Our position is he did not seek
6 consent, and that is undisputed.

7 THE COURT: Undisputed in the sense there is no
8 evidence of it one way or the other?

9 MS. PIROZZOLO: No, no, no, no. Sorry.

10 THE COURT: Is there something in writing? Is there
11 some piece of evidence that I can look at that touches on this
12 that you are aware of? I understand your position being no,
13 there is not.

14 MS. PIROZZOLO: Well, the best evidence is, and I will
15 try to get the cite, we asked Dr. Gray if he had sought and
16 obtained consent, and he did not. He could not answer. You
17 can read his answer. He says he thinks he told someone at some
18 point.

19 THE COURT: Is that all there is in this case, that is
20 what I guess I am getting at, in this record?

21 MS. PIROZZOLO: Well, you also have Dr. Roberts'
22 testimony, which we cited. Dr. Roberts was a member of the
23 Steering Committee and we cited his testimony where he says, in
24 essence, he learned that Novartis had not been told about
25 Gatekeeper and was surprised that had not been done and

1 understood why Novartis was upset about that.

2 THE COURT: That is not admissible, either. I should
3 not say that. Gray's testimony is admissible for what it is
4 worth, which is not very much, and this other Roberts testimony
5 is not admissible at all. He heard that there was a problem
6 and he was not surprised that Novartis was upset.

7 MS. PIROZZOLO: I know we submitted a Declaration from
8 Dr. Sellers. I think he said he learned of the invention not
9 until the Fall of 2009. I don't know if he specifically
10 referenced when he learned of Gatekeeper.

11 THE COURT: It is not even a matter of learning of
12 Gatekeeper. It is a more specific, for me, anyway, issue of
13 when did he, if he did, seek and obtain the Committee's
14 consent.

15 MS. PIROZZOLO: It's hard for us to prove a negative.
16 It just didn't happen.

17 THE COURT: Well, so you say. There must be some
18 proof of that or lack of proof; that is what I am getting at.
19 The short of it is, you have told me what you know about it.

20 MS. PIROZZOLO: There is no record of it, no one has
21 testified that it occurred. Even Dr. Gray, himself, didn't
22 testify he obtained consent when asked.

23 THE COURT: Now, with respect to the research
24 agreement involving Dana-Farber, that is no longer an issue, I
25 take it, here. Is that right or not?

1 MS. PIROZZOLO: Yeah. Our point with that is really
2 that by having these requirements of having people who are
3 entering into potentially conflicting business relationships,
4 by having the requirement that they notify the Steering
5 Committee, you can avoid situations like this where there is
6 disputes about who owns intellectual property, and those
7 procedures weren't followed here.

8 THE COURT: Well, but the question I think is a more
9 specific one: Is the option agreement a research support or
10 collaboration agreement? You seem to have abandoned the theory
11 that it was in respect of Dana-Farber.

12 MS. PIROZZOLO: Yes. Our theory really is that
13 Gatekeeper has unclean hands or is not a bona fide purchaser of
14 the option agreement because Dr. Gray was a shareholder of
15 Gatekeeper, he was a founding shareholder. It's a small,
16 closely held corporation. Clearly Dr. Gray knew he was
17 supposed to obtain consent. He did not.

18 THE COURT: I just want to be sure that I am
19 understanding what the issues are.

20 Now, with respect to the Materials Transfer Agreement,
21 assume, as I think you have to, that I am going to treat that
22 as some sort of physical transfer of something. Is there
23 anything in here left for you in terms of material transfer?

24 MS. PIROZZOLO: There is.

25 THE COURT: Tell me what it is.

1 MS. PIROZZOLO: It was the crystallography studies
2 that Dr. Eck performed using QAD-409. Those studies were
3 physically provided to Dr. Gray's lab.

4 THE COURT: And that, as far as you are concerned, is
5 material. I guess I have been conceiving the material in this
6 setting as being physical and not studies, meaning physical
7 stuff like QAD-409, that kind of thing.

8 MS. PIROZZOLO: Well, I don't think there is evidence
9 of the actual material being transferred, you are correct. But
10 Novartis transferred the material to Dr. Eck with an agreement
11 that specifically said, This is for use in the collaboration
12 and you can't --

13 THE COURT: Right, but he did not transfer physical
14 material to someone else. He let studies be done under your
15 theory, but he did not transfer some magic potion to someone
16 else.

17 MS. PIROZZOLO: He transferred the results of the work
18 he obtained.

19 THE COURT: And I just want to be sure that I am not
20 missing something when I say the results are not within the
21 scope of the MTA. I do not know how I could read the MTA that
22 way. It talks in terms of unused material being destroyed, and
23 that does not make any sense if we are talking about results.

24 MS. PIROZZOLO: Well, we are relying on paragraph 7 of
25 the MTA, and it says, "[I]f in breach," and I'm excerpting a

1 bit -- it's on page 33 of our presentation -- "[I]f, in breach
2 of this Agreement, the Materials are not solely used for the
3 Studies..."

4 THE COURT: Well, it begs the question of what the
5 materials are.

6 MS. PIROZZOLO: Well, and in this case --

7 THE COURT: It also talks about "unused material."
8 "Any unused material will be destroyed under the applicant's
9 supervision." That strikes me as being the physical things,
10 physical, or chemicals or whatever.

11 MS. PIROZZOLO: I think, your Honor, if you take
12 material that was provided to you under an MTA and then you
13 create crystal structures of them, you are not free to just
14 give other people those crystal structures without violating
15 the MTA.

16 THE COURT: The crystal structures themselves?

17 MS. PIROZZOLO: Well, the information about the
18 crystal structures.

19 THE COURT: See, that is the difference; it is
20 derivative.

21 MS. PIROZZOLO: But I don't think you're free --
22 otherwise it would be very easy to circumvent an MTA.

23 THE COURT: No, it would not. No. The MTA serves a
24 particular office, and the particular office is that physical
25 substances will not be transferred. Now, there may be other

1 ways of controlling the passage of information in respect of
2 the physical structures, but it is the physical structures that
3 we are talking about in the MTA, I think, unless there is
4 something more you would like to say about that.

5 MS. PIROZZOLO: Well, I don't think that's the way
6 MTAs are understood, because otherwise --

7 THE COURT: The other thing that you would like to say
8 is, "I do not agree with you."

9 MS. PIROZZOLO: Well, otherwise you get the structure,
10 you look at it. You don't actually give someone the structure,
11 but you tell someone everything you know about it so they can
12 make it themselves, and basically that wouldn't be a violation
13 of the MTA under your interpretation, and that that's a
14 complete circumvention of the --

15 THE COURT: It is not entirely circumvention, because
16 you have another set of agreements that are supposed to control
17 it. Now we are talking about what I consider to be a very
18 narrow agreement called a "Materials Transfer," because your
19 interpretation would be I think quite generous in dealing with
20 that.

21 I think we have reached an impasse with respect to
22 that, unless there is something else.

23 MS. PIROZZOLO: Thank you, your Honor.

24 THE COURT: So, let me understand the position of
25 Gatekeeper on these issues.

1 If I start with the patent application, and maybe even
2 if I step back a bit and ask how come Dr. Eck got on the
3 patent, what did he do to get on the patent?

4 MR. SCOTT: Well, I think he did two things. I think
5 he, and as Dr. Gray readily admits, suggested the idea of doing
6 a Jak3 irreversible inhibitor.

7 THE COURT: So, maybe that is conception, then, right?

8 MR. SCOTT: No, I don't think so, and I'll backtrack
9 to that once I answer this first question.

10 THE COURT: Sure.

11 MR. SCOTT: The second thing he did which was of some
12 significance was to do the crystallography of WZ-4002 with the
13 T790M EGFR in September, October and November of 2008 after the
14 reduction to practice. Those are the two things he did. And
15 one could argue that that crystallography process was part of
16 the reduction to practice.

17 THE COURT: Well, if you do, haven't you drawn him in,
18 then, drawn Dr. Eck into a breach of his obligations under his
19 funding from Novartis?

20 MR. SCOTT: I don't think simply drawing Dr. Eck into
21 the invention --

22 THE COURT: I have been delicate. Has he breached it?

23 MR. SCOTT: No, I don't think so.

24 THE COURT: Why not? If he is using this set of
25 techniques that he has developed as a result of funding from

1 Novartis to assist, as you said kind of secondarily maybe that
2 is part of the reduction to practice, why isn't that included?

3 MR. SCOTT: But doing crystallography is what his
4 Ph.D. is in. There is no evidence that the process of doing
5 crystal structures has been derived from Novartis in any sense.

6 THE COURT: Crystal structures in this context with
7 this set of materials and this set of compounds.

8 MR. SCOTT: But the work done in the Fall of 2008
9 didn't involve any Novartis materials; it was WZ-4002 and the
10 T790M mutation. There was no Novartis materials then.

11 THE COURT: It does not necessarily have to be
12 Novartis materials, and I guess it goes back to this question
13 of "in part."

14 MR. SCOTT: Yeah, I would like to go back to that
15 question.

16 THE COURT: Yes, go ahead.

17 MR. SCOTT: And I think we have done a lot of talking
18 this afternoon about the patent. We are not here on a patent
19 case; we are here on a contract case.

20 THE COURT: Well, but the patent case is an
21 embodiment, as far as I can see, or can be looked at as an
22 embodiment of the invention that is generated by the funding
23 from Novartis, and so it becomes a stalking horse.

24 I was thinking of this in a different sort of way.
25 Assume an appeal of whatever I do in this case. Where does it

1 go? I think it goes to the First Circuit, but I am not sure.

2 MR. SCOTT: I'm sure it does.

3 THE COURT: You are sure it does?

4 MR. SCOTT: Sure it does.

5 THE COURT: Any question on your part, Ms. Pirozzolo?

6 MS. PIROZZOLO: I think that's correct, your Honor.

7 THE COURT: So, in any event, I am interpreting
8 patents in a contract setting. I think I have to. Why
9 wouldn't I?

10 MR. SCOTT: Let me suggest why you don't.

11 THE COURT: All right.

12 MR. SCOTT: We are here on a contract claim. The
13 contract deals with rights to program technology. "Program
14 technology" is defined in the contract as technology.
15 "Technology" is then defined as any invention, innovation or
16 discovery, whether protectable by a patent or not and whether
17 patentable or not, or copyrightable or any other form of
18 trade-secret protection. The form of protection granted to the
19 invention is irrelevant to its definition as "program
20 technology."

21 THE COURT: I agree, except for this: That a core
22 kind of invention will be one that is protected by a patent.
23 Then we would not even be talking about whether we have an
24 invention or an innovation or a discovery, because it is
25 certifiably one of those; it is something that is protected by

1 a particular constitutional program.

2 MR. SCOTT: I agree. Let me just make one note. What
3 we have here is a patent application; nothing has been issued
4 yet.

5 THE COURT: Right.

6 MR. SCOTT: And it is protected by a patent, but it is
7 protected with a number of other things in that patent. That
8 patent is not limited to the invention. It has got other
9 aspects to it.

10 THE COURT: So, let me go back to what I was saying
11 about either 51 or 53. If I say, for purposes of providing
12 metes and bounds of your authority, you can have everything
13 except Claim 51 or Claim 53.

14 MR. SCOTT: I think if Claim 51 or 53 is the broad one
15 that applies to all kinases and incorporates the more general
16 definition, I agree. That is, what this case has been about
17 from the very moment it was filed is mutant-specific
18 irreversible inhibitors of T790M EGFR. That's the way the case
19 was pled by Novartis, by DFCI and by Gatekeeper and that's how
20 it has come to this Court. That's how it was defined -- the
21 entitlement issue was initially raised by DFCI, and the
22 entitlement issue was defined as --

23 THE COURT: What are you reading from now?

24 MR. SCOTT: This is from DFCI's motion for a Rule 16
25 case management filed June 27th. It's what initiated the

1 process that led us here today. The issue was to which party,
2 Gatekeeper or Novartis, can and should Dana-Farber grant a
3 license to the WZ-4002 intellectual property? That's what we
4 have been fighting about all along.

5 And indeed in Novartis's opening brief on this motion,
6 that's how they define the issue. They state at page -- their
7 separate statement at fact number 136 is, "The '419 patent
8 application describes and claims chemical compounds that
9 inhibit the drug-resistant T790M 'gatekeeper' mutation of the
10 EGFR protein and less effectively inhibit the wild-type EGFR
11 protein. Among those compounds is WZ-4002."

12 That's their statement of undisputed facts at 136 and
13 we didn't dispute it. That's what we are here about, not about
14 all the many and varied other claims in that patent. So, the
15 notion that they can claim, which we dispute, but even
16 accepting that they can claim some rights to WZ-1-84, we don't
17 care. They can have it. We are not interested in WZ-1-84 as a
18 Jak3 inhibitor, which is all they have claimed any rights to.

19 And I can address whether or not, in view of that, we
20 still have claims for interference. I think we still do, but
21 that's not really before the Court here.

22 And I would also suggest, your Honor, that --

23 THE COURT: Why isn't it something I have to think
24 about for present purposes under the Motions for Summary
25 Judgment?

1 MR. SCOTT: Well, currently it's summary judgment on
2 an issue, the entitlement issue. Nobody's done any discovery
3 on the interference claims. We didn't take any depositions.

4 THE COURT: Because it is so inextricably intertwined
5 with the question of damage. It is damage. That is what
6 interference is.

7 MR. SCOTT: We have separated it, and we sit here
8 today with it separated.

9 The other point I would make, and one of the problems
10 of going down the approach suggested by Novartis is, if you
11 accept their version of what they are entitled to based on the
12 patent, Novartis would be entitled to every irreversible
13 inhibitor that comes out of DFCI that inhibits any kinase, and
14 that can't be. That brings them way violative of the Bayh-Dole
15 Act. They can't tie up every irreversible inhibitor that comes
16 out of DFCI.

17 And I would also suggest, your Honor, that any theory
18 of the invention that fails to account for two things can't be
19 right. One, the theory of the invention has to account for the
20 delay between the May 30, 1997 invention or synthesis of
21 WZ-4002 and the discovery 18 months later that, lo and behold,
22 it has this mutant-specific irreversibly inhibitory effect on
23 T790M. This notion of a straight-line series of inventions
24 from Dr. Eck using QAD-409, et cetera, et cetera, et cetera; it
25 doesn't make any sense, if that were the case, for WZ-4002 to

1 be synthesized and then to sit there for 18 months. The fact
2 is, as Drs. Janne and Gray testified, that the library was
3 built, it sat there. Dr. Gray didn't even think it was worth
4 trying to test its mutant-specific inhibitors against T790M.
5 It was Dr. Janne's idea in August and the invention was made in
6 September of 2008.

7 The second thing that Novartis' theory can't account
8 for, and this is on a more human scale than it is a science
9 scale because I think probably the human scale is more
10 informative, they can't account for the contemporaneous
11 evidence of Dr. Janne's and Dr. Gray's surprise and excitement
12 in September of 2008 that, lo and behold, we've hit upon
13 something. If it is as Novartis suggests, that should have
14 been obvious to them months prior, but it wasn't and the
15 contemporaneous evidence proves it wasn't.

16 THE COURT: I understand your resistance to the use of
17 the patent as a prism to refract light on this dispute, but let
18 us assume that, surprise to the contrary notwithstanding, they
19 claimed it in Claim 1.

20 MR. SCOTT: "It" being?

21 THE COURT: "It" being the mutant-specific effect of
22 inhibition that you find from WZ4002 on T790, is it? I am
23 losing the numbers.

24 MR. SCOTT: Yes. Assume they claimed it in Claim 1.

25 THE COURT: It is said to be a genus claim, covers all

1 kinds of things in this area, it is not just specific, and so
2 they had no idea how many things, how many species there were
3 in this genus.

4 MR. SCOTT: Again, I don't think that the
5 claim-by-claim analysis of the patent is the right approach. I
6 think it's an invention-by-invention analysis. And if, in
7 fact, they made that claim in Claim 1, then I think this Court
8 should issue an order that Gatekeeper is entitled to that
9 invention and then deal with the application however it needs
10 to be dealt with in order to get us the invention we are
11 entitled to.

12 I think the entitlement issue comes first, so then we
13 will deal with the patent application.

14 THE COURT: Well, but the question is what you are
15 entitled to, and they are making this argument, which I had
16 said was ethereal and still has certain of those qualities as I
17 listened to it, but it is pretty broad and it covers a lot of
18 territory, and the question for me is how properly to construe
19 a contract that purports to convey something that is mirrored
20 in the claims of the patent. That is the issue that I am
21 trying to deal with. I suppose I could ignore it altogether
22 and say that is a patent that does not have anything to do with
23 this case. I am not sure I want to do that.

24 MR. SCOTT: But I think it is the case, your Honor,
25 that it is common in industry to carve up a patent and to

1 license specific rights that are subparts of a patent, and all
2 we are entitled to is a license. We don't care whether it's
3 the whole patent or whether it's a subset.

4 THE COURT: I understand that. The issue here is they
5 claim they are entitled to it too, and they claim that they are
6 entitled to it with priority over you. That is why it is in a
7 peculiar posture. I am dealing with a series of analogies, but
8 this is a priority case.

9 MR. SCOTT: I think the analogies are dangerous,
10 because I don't think it's a priority case, and I think that
11 they are claiming different parts of that patent. They are
12 claiming that they have some rights to the invention of WZ-1-84
13 as a Jak3 inhibitor, and they are saying, Oh, well, we find
14 that in the patent, and therefore we are entitled to the whole
15 patent.

16 But that is not the analysis that the CRA demands that
17 we and this Court undertake. It's not a question of who is the
18 inventor and who has priority of a patent. It's a question of
19 who has rights of program technology under the CRA, and if that
20 program technology happens to be bound to other kinds of
21 technology in a patent, that's of no moment under the CRA.
22 It's a question of who has rights to the invention.

23 And I think the invention here has been defined from
24 the outset: mutant-specific irreversible inhibitors of T790M.

25 THE COURT: All right.

1 MR. SCOTT: If I can -- actually, I don't know if it's
2 worthwhile -- I can respond to some of the points.

3 THE COURT: Go ahead, please.

4 MR. SCOTT: I think there are some dangers, actually,
5 in a PowerPoint presentation and parts of evidence taken out of
6 context, so I'd urge the Court actually to look at the
7 underlying exhibits.

8 THE COURT: I am sure you recognize that that is what
9 I have been trying to do.

10 MR. SCOTT: One of the first slides that we saw was a
11 quote, "Irreversible inhibitors, as a class, overcome
12 resistance." That was in that presentation. I would like to
13 remind the Court that the efficacy of irreversible inhibitors
14 against the T790M mutation was described in the very first
15 article announcing the discovery of the T790M mutation, and Dr.
16 Janne testifies to that. So, Dr. Eck was not making a
17 revolutionary or even a new suggestion. Counsel suggested, Oh,
18 gee, that's preceded by just a few pages with a crystallization
19 structure of QAD-409 and suggests that there was a connection
20 between the two.

21 If you look at Dr. Eck's testimony about what that
22 Exhibit 90 is, and we cite to it in our papers, it's a
23 presentation of two different presentations: One, here's how
24 we developed a Jak3 irreversible inhibitor; and, two, here's
25 our discovery about the T790M means of resistance. And to

1 combine those two presentations the way it was suggested
2 earlier I don't think is a fair characterization of the
3 document.

4 Dr. Eck's testimony about locating the place where
5 binding can occur, that was testimony regarding the development
6 of, again, a Jak3 inhibitor.

7 Counsel quoted from the testimony of Dr. Zhou about
8 QAD-409 being the basis. That was at page 24 of Dr. Zhou's
9 testimony. And I would like to, if you just continue down that
10 page at line 21: "Okay."

11 THE COURT: Where is he in the-

12 MR. SCOTT: I think it's the last tab. I don't know.
13 Do they go to F? I think it's F.

14 MS. PIROZZOLO: Exhibit F.

15 MR. SCOTT: Exhibit F. I have tabbed mine by names.

16 THE COURT: F is Timothy Scott.

17 MR. SCOTT: I'm sorry. It's probably not so important
18 a point to take up all this time.

19 THE COURT: Well, you mentioned it so I am trying to
20 read all of the deposition testimony.

21 MR. SCOTT: I appreciate it. It's not as bad as it
22 could be.

23 THE COURT: Pardon me?

24 MR. SCOTT: It's not as bad as it could be.

25 THE COURT: It never is, in my experience. But go

1 ahead.

2 MR. SCOTT: Page 24, line 21. The quote that counsel
3 quoted was from lines 1 to 8. I would like to continue.
4 Actually, you can pick it up at line 12.

5 "Okay. At the top it says 'Strategy for
6 identification of mutant-selective irreversible inhibitors of
7 T790M mutant EGFR.'" That's us.

8 Answer: "Uh-huh."

9 "Okay. And then at the bottom it lists some more of
10 your compounds. Do you see?"

11 "Yes."

12 "WZ3146, 4002 and WZ8040."

13 "Yes."

14 "Okay. Were you involved in the strategy for
15 identification of mutant-selective irreversible inhibitors?"

16 "Yes, I was."

17 "Please describe the strategy."

18 "So, based on the pyrimidine," which is different than
19 a purine; the QAD-409 is a purine," based on the pyrimidine...
20 I made several -- several compounds. And so we actually --
21 Dr. Gray published a paper about EGFR/Bmx cross-reactivity. So
22 we collaborated with Dr. Pasi Janne's lab to test those
23 compounds. Then after -- after we got the results, we
24 redesigned and remake more compounds to optimize the properties
25 of our compounds."

1 He later testifies this was the process that took
2 place in September 2008. It has little or nothing to do with
3 QAD-409 or WZ-1-84. Counsel pointed out that WZ-1-84 appears
4 in the patent except for I guess there's only one little
5 difference, there's this chlorine molecule. Well, in the world
6 of chemistry a little chlorine molecule is a significant thing.

7 THE COURT: It is like, as Mark Twain said, There is a
8 big difference between fire and a firefly.

9 MR. SCOTT: Yes.

10 Finally, the issue of whether Dr. Gray sought consent,
11 Dr. Gray addresses that issue at page 35 of his testimony.

12 THE COURT: Which is?

13 MS. PIROZZOLO: D.

14 MR. SCOTT: Tab D, I'm told.

15 THE COURT: And the page again?

16 MR. SCOTT: Page 35, beginning with line 16:

17 "Okay. Do you have any recollection of whether you
18 informed the steering committee that you were founding
19 Gatekeeper before you, in fact, found Gatekeeper?"

20 "I can't remember the time in between when I talked to
21 the steering committee, Livingston and Roberts, about founding
22 that, vis-à-vis when the company was started."

23 So, what he says is, I talked to them, but I can't put
24 it before or after the founding.

25 THE COURT: But that is not all of what he is supposed

1 to do. It is supposed to be in writing, isn't it?

2 MR. SCOTT: I don't think so, because if you consult
3 the testimony of Dr. Roberts, and that is at pages 7 and 8, the
4 questions and answers go as follows: Question:

5 THE COURT: Just a moment.

6 MR. SCOTT: Sorry.

7 THE COURT: I want to be sure I am picking up
8 everything here.

9 MR. SCOTT: Question: "Is there a mechanism for a
10 principal investigator to bring matters to the attention of the
11 steering committee -- "

12 THE COURT: Hold on just a second. I am going back
13 and forth between things.

14 MR. SCOTT: Sorry.

15 THE COURT: Roberts is which one, which tab?

16 MS. PIROZZOLO: Tab E, your Honor.

17 THE COURT: And the page number again?

18 MR. SCOTT: 7 to 8.

19 Question: "Is there a mechanism for a principal
20 investigator to bring matters to the attention of the steering
21 committee?"

22 Answer: "Yes."

23 Question: "Can you describe that mechanism for me,
24 please."

25 Answer: "It's informal. But in general, a PI would

1 contact either...Dennis Lynch, who acts as David's lieutenant,
2 as it were, and is more involved in the day-to-day interaction
3 with Novartis than either David or I am."

4 Question: "And once an issue was brought to the
5 attention of Dr. Livingston, you, or Dr. Lynch, who would be
6 responsible, then, for following up and bringing it to the
7 attention of the full steering committee?"

8 "This, again, is an informal process and it could
9 happen in several ways. It could happen via a communication
10 between either myself or David -- more likely David -- and Bill
11 Sellers. But the most likely means would be for Dennis Lynch
12 to contact...Phil Gotwals, Bill Sellers' lieutenant."

13 The point is that Dr. Gray brought this to the
14 attention the way people had operated under that CRA
15 throughout, which is by --

16 THE COURT: Well, that may be the way they operate,
17 but Section One of the Agreement says that you inform them and
18 obtain prior written approval from the steering committee to
19 enter into an arrangement, and I take it that there is no
20 evidence of a prior written --

21 MR. SCOTT: No, there is not.

22 THE COURT: So, what you are saying is there is a
23 custom and practice that has effectively put a gloss on this
24 prior written approval.

25 MR. SCOTT: Yes. And I would add to that, your Honor,

1 that the addendum of the Dana-Farber terms to that Consulting
2 Agreement expressly provide that nothing in the Consulting
3 Agreement shall give Novartis any rights in any invention or
4 even any priority towards any rights to any invention. So,
5 whatever the significance of the Consulting Agreement vis-à-vis
6 Dr. Gray personally, it doesn't have significance with respect
7 to granting rights to Novartis to any invention made at
8 Dana-Farber.

9 THE COURT: So, it is immaterial in this setting?

10 MR. SCOTT: Yes.

11 THE COURT: All right. I understand that.

12 MR. SCOTT: Thank you.

13 THE COURT: Ms. Pirozzolo, anything else you want to
14 add?

15 MS. PIROZZOLO: Yes, your Honor, I would like to
16 respond briefly. The first point: I really do think you have
17 to look at the patent application at issue to define "program
18 technology," and that is because the dispute here is was
19 Novartis guilty of tortious interference by virtue of asserting
20 rights --

21 THE COURT: Let me pause. I had not thought to go
22 back to either the Complaint or the Rule 16 statement, but do
23 you dispute that we are dealing with entitlement to
24 mutant-specific inhibitors?

25 MS. PIROZZOLO: That is included in the invention,

1 but, for example, one issue -- Gatekeeper appears to concede
2 that Novartis funded work on Jak3 inhibitors that are included
3 in this patent application. If that is the case, how could we
4 have tortiously interfered by virtue of asserting rights to
5 license at least those inventions?

6 THE COURT: Well, see, I think it is the case that I
7 am limited on this Motion for Summary Judgment to the question
8 of entitlement; that is to say, the issue here is not whether
9 you interfere but who is entitled to what, and if I
10 substantially constrain that entitlement under these
11 circumstances, if I substantially constrain your entitlement
12 under those circumstances, then we move on to this question of
13 interference.

14 I do not know whether you interfered or not. I am not
15 really being asked to say that yet. You are apprehensive that
16 you might have, that is why you brought a declaratory judgment
17 action, and to the degree that I have to decide this as a
18 declaratory judgment action prudentially, that is, I have
19 discretion not to deal with things that are not cases in
20 controversy, as I assume there is a real issue about
21 interference.

22 MS. PIROZZOLO: Well, our declaratory judgment action
23 is now moot because we have ceded the rights to the invention.
24 So, the only claim as a defendant on the tortious interference
25 claim --

1 THE COURT: The question of interference is not
2 directly before me.

3 MS. PIROZZOLO: Well, except the elements of tortious
4 interference include did they have a contract, and if we had
5 rights in this patent application then we had prior rights and
6 they didn't have rights. So, entitlement would resolve the
7 tortious interference claim, and it's our position that it
8 does.

9 THE COURT: Well, if you prevail on it, it will. If
10 you do not prevail on it, then we move on to the question of
11 the nature of interference and damages associated with it.

12 MS. PIROZZOLO: Well, except if your Honor finds I
13 believe that we were entitled to part of the patent
14 application, which I sense is a possibility, then clearly we
15 were entitled to part, so we couldn't have tortiously
16 interfered by virtue of asserting that right --

17 THE COURT: I do not know the answer to --

18 MS. PIROZZOLO: -- and that should dispose of the
19 claim against us.

20 THE COURT: It should, but it does not do it on this
21 Motion for Summary Judgment. It becomes a second Motion for
22 Summary Judgment, I suppose.

23 MS. PIROZZOLO: But, your Honor, the thing that was
24 being licensed here, the subject of the option agreement was a
25 patent application. So, the issue is whether Dana-Farber had

1 to offer it to us.

2 THE COURT: No. It was an invention, It was not the
3 patent application. It was an invention or discovery or
4 something like that.

5 MS. PIROZZOLO: Well, except that the operative
6 provisions of the Collaboration Agreement are that we have a
7 right to an option to license program technology.

8 THE COURT: Right, but that license could proceed from
9 a patent or from any of a number of forms of protected or
10 intellectual property. It may not be a patent. Whether or not
11 protected by patent, copyright or trade secret law or
12 otherwise.

13 I am not foreclosing the idea that the patent is the
14 cat's paw for whatever intellectual property is involved here
15 and it is the proper way for me to conceive it and provide a
16 definition, but it does not get incorporated by reference
17 immediately. That is the point, I guess.

18 MS. PIROZZOLO: I guess I think the problem you have
19 if you don't look at it as a patent is what is supposed to
20 happen when Dana-Farber files a patent application. In our
21 view, what is supposed to happen is, if we funded any of the
22 inventions in that they have to offer it to us to license under
23 the CRA. That's kind of the point of all those provisions.

24 THE COURT: Not to play too much on current events,
25 but this is the Ronald Reagan, "It is my microphone, so I get

1 to use it."

2 MS. PIROZZOLO: Well, the other thing is, your Honor,
3 the fire/firefly example you used, Gatekeeper has made a big
4 point of, well, these are pyrimidines, not purines, but the
5 compound that I pointed you to in Table 1 is a purine. That's
6 our point, is, this patent application is covering a lot of
7 technology.

8 THE COURT: I do not treat I guess it was Dr. Zhou's
9 testimony as being conclusive on that issue, whether he
10 professed to having some lack of recollection with respect to
11 this, certain aspects of this.

12 MS. PIROZZOLO: But all I'm pointing out is you can
13 look at the patent application and you can see that the
14 compounds include both pyrimidine --

15 THE COURT: Like the deposition transcript, I will
16 look at the patent application.

17 MS. PIROZZOLO: -- and purine compounds.

18 And I just wanted to point out, when you asked the
19 question about Dr. Eck's role in the invention, the answer was
20 the ideas provided and then work done after reduction to
21 practice, which I don't think qualifies as an inventive
22 contribution. So, Dr. Eck did something here.

23 THE COURT: Well, what is the impact of that? Let us
24 assume that three people who work together closely decide for
25 various interpersonal relations that they will announce that

1 the three of them are the inventors. Now, I suppose I can use
2 that as a form of impeachment that Dr. Eck must have done
3 something to do that. On the other hand, maybe they felt
4 strongly about their relationship and so they decided, We'll
5 make all three of us joint inventors under these circumstances.
6 What is it to you?

7 MS. PIROZZOLO: Well, actually I think we mention this
8 in our papers, but Dr. Eck testified that he found out about
9 the patent application accidentally. Dr. Gray had been taking
10 a lead in the patent application. He filed the patent
11 application without Dr. Eck on it. Dr. Eck then got in touch
12 with the patent attorney and explained his role in the
13 invention and was added as an inventor.

14 THE COURT: But when he provided the explanation we do
15 not have his testimony of his explanation of what he did that
16 ties it to Novartis funding, do we?

17 MS. PIROZZOLO: Well, we have cited his testimony
18 about his work on conceiving this class of compounds as part of
19 his Novartis-funded research project in 2005 and 2006 --

20 THE COURT: Right.

21 MS. PIROZZOLO: -- and that he communicated that idea
22 to Dr. Gray.

23 THE COURT: But we are back to conception and
24 reduction to practice. That is the point. I think it is a
25 terrific jury argument. I am not sure it does very much on

1 summary judgment that you have got some uncertainty about who
2 the inventor is and what the contributions or relative
3 contributions of the inventors are, even when the inventors
4 have their own explanations of what they are.

5 MS. PIROZZOLO: Well, for summary judgment we are
6 relying on evidence of what Dr. Eck provided with regard to the
7 development of these compounds, not the mere fact that he was
8 added as inventor. I was just responding to your comment.
9 Maybe they are just buddies and he got thrown on the patent
10 application because they're friends and they thought that was
11 the collegial thing to do. The evidence actually suggests
12 otherwise.

13 THE COURT: All right.

14 MS. PIROZZOLO: Thank you, your Honor.

15 THE COURT: Anything else?

16 MR. SCOTT: Your Honor, two more things. Ten seconds.

17 We don't concede on WZ-1-84; we don't think it's
18 Novartis-funded. I could get into that, if you like, but since
19 we are running out of time, the second thing is, there were
20 objections made to some of the evidence we submitted. I can
21 address that.

22 THE COURT: As I presently conceive what I am going to
23 be doing with this, and I have done a certain amount of work, I
24 do not think that the evidentiary objections are going to make
25 a difference.

1 MR. SCOTT: Okay. I have responses I can hand up to
2 the Court, if you want to read them, but, in essence, they say
3 they are all admissions and under the revised Rule 56, the
4 question is not --

5 THE COURT: You can paper the record. Submit it in
6 the ordinary course is all I would say with respect to that.

7 MR. SCOTT: Okay. Thank you, your Honor.

8 THE COURT: Thank you. So, we will be in recess in
9 this matter.

10 THE CLERK: All rise.

11 (The Honorable Court exited the courtroom at 4:00 p.m.)

12 (WHEREUPON, the proceedings adjourned at 4:00 p.m.)
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C E R T I F I C A T E

I, Brenda K. Hancock, RMR, CRR and Official Reporter of the United States District Court, do hereby certify that the foregoing transcript constitutes, to the best of my skill and ability, a true and accurate transcription of my stenotype notes taken in the matter of *Dana-Farber Cancer Inst. v. Gatekeeper Pharmaceuticals, Inc., et al.*, No. 1:10-cv-11613-DPW.

Date: January 19, 2012

/s/ Brenda K. Hancock

Brenda K. Hancock, RMR, CRR

Official Court Reporter